

# How to Prevent Big Fires.

Modern Fire Fighting demands Appliances quicker in action and more simple to manipulate, than those hitherto in use.

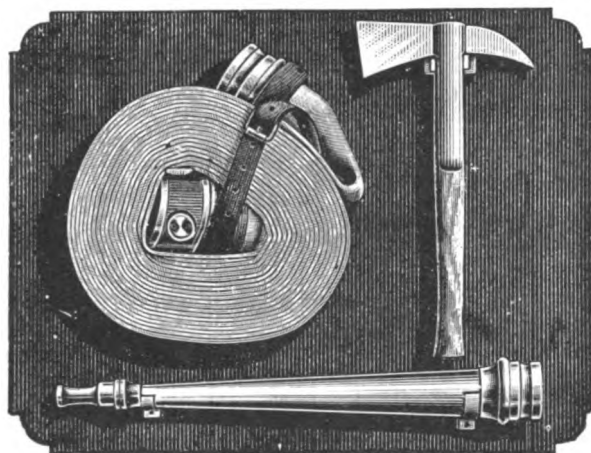
Everybody must admit that the first few minutes at a fire is of vital importance.

## Morris's Patent Instantaneous Fire Appliances

Save these precious minutes.

BY THEIR USE UNTRAINED PERSONS ABOUT THE ESTABLISHMENTS OF COUNTRY GENTLEMEN CAN GET FIRE SERVICE FITTINGS EFFECTUALLY INTO ACTION INSTANTLY ON THE OUTBREAK OF FIRE, AND IN A FRACTION OF THE TIME IT TAKES EVEN SKILLED FIREMEN WITH ANY OTHER SYSTEM YET INTRODUCED.

No Mansion is  
efficiently equipped  
without  
Morris's Patent  
Fire  
Appliances.



Saves both time  
and labour,  
and increases the  
efficiency of  
trained  
Fire Brigades.

Existing Fire Service fittings can be altered to the Morris System, at a small cost.

Send for Illustrated Catalogue and book of Testimonials.

**MORRIS'S PATENT SYSTEM** prevents confusion when getting fire appliances to work; it does away with the use of wrenches and reels, while leaking joints are a thing of the past. In public institutions where Morris's System is adopted, nurses can get the fire apparatus to work with the ease and speed of trained firemen, so simple are they to use.

**JOHN MORRIS & SONS**, Salford Fire Engine Works, **MANCHESTER.**

# IMPORTANT.

Since it is found advantageous for expert Fire Brigades like those of Manchester, Liverpool, Birmingham, Sheffield, Dublin, Cardiff, Swansea, Newcastle, Hull, &c., to go to the expense of having all their appliances altered to MORRIS'S Instantaneous system, it must be far more so for Country Establishments which have not trained firemen always on the spot.

## Reasons why Country Mansions should use Morris's Patent Fire Appliances.



**BECAUSE** they require no previous knowledge to use.

**BECAUSE** they are instantaneously brought into use in case of emergency.

**BECAUSE** the hose pipes can be connected together as easily and as quickly in the dark as in daylight.

**BECAUSE** there are no threads to get crossed or injured; they require no screwing or turning, and reels and wrenches are done away with.

Do not let old-fashioned prejudice prevent you adopting the MORRIS SYSTEM OF FIRE EXTINGUISHING APPLIANCES at your Establishment.

Illustration shows a fireman laying down hose-piping on the Morris system as fast as he can run.

### One from Book of 1,000 Testimonials.

Messrs. JOHN MORRIS & SONS.

CITY SURVEYOR'S OFFICE, CANTERBURY, February 1st, 1892.

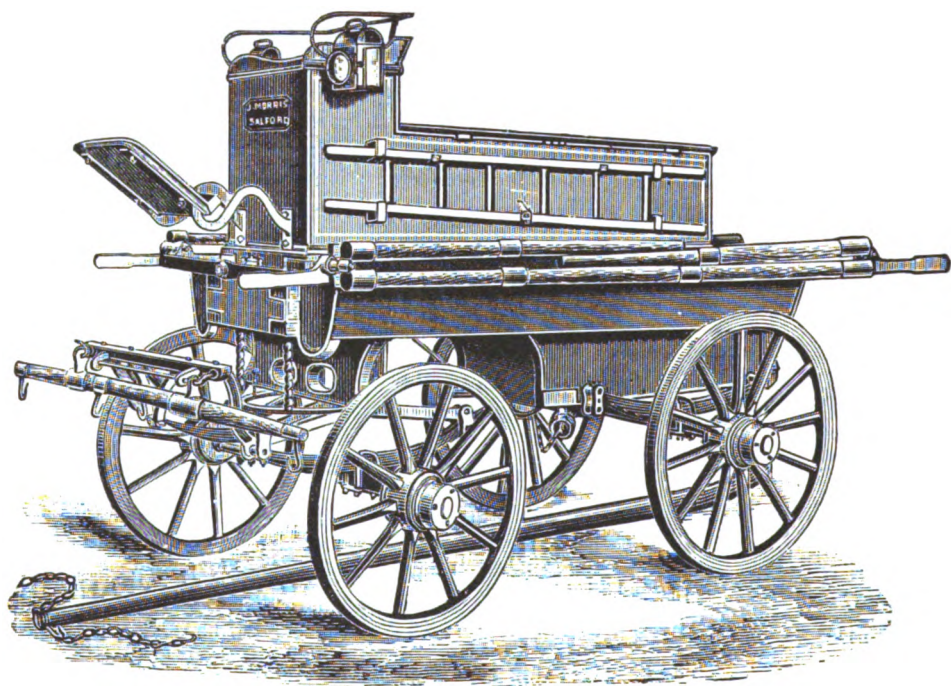
DEAR SIRs,—I have pleasure in giving my testimony to the very great superiority of Morris's Patent Instantaneous Self-locking Hose Couplings. In a long experience of 25 years working with Fire Brigades, and having visited many of the Brigades in America and Canada, I have no hesitation in saying **this Coupling stands far above any other in use**, and that here in England it is only our old-fashioned conservative prejudice against anything different that prevents its being introduced into and used by every Brigade in the Kingdom. Everyone must admit the first few minutes at a fire is of vital importance, and with the Instantaneous Coupling these precious minutes are saved, immediately the water is on, no time is lost in putting out a fire.

I am, dear Sirs, yours faithfully,

FRANK BAKER, C.E.

**REMEMBER** the rapidity with which a Fire can be attacked is of the utmost importance, as the first few minutes of a Fire generally decide the fate of the property in danger. With Morris's Patent Appliances these precious minutes are saved.

**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**



## MORRIS'S "GOLD MEDAL" MANUAL FIRE ENGINES

*Protect Towns, Villages, Estates and Property in every Country in the World.*

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ALL KINDS AND SIZES SUITABLE FOR EVERY PURPOSE.  
**Simple, Powerful and Cheap.**

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Prices range from £20 to £120,  
And are made for 4, 6, 8, 12, 16, 22 and 26 men to pump respectively.

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WE BUILD THE LARGEST ASSORTMENT OF FIRE ENGINES IN THE TRADE.

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The workmanship of these Engines is of the highest order, and all parts designed to secure strength with minimum weight. Built of the simplest possible construction, so as to be available under any circumstances, and to discharge a maximum quantity of water per minute with a comparatively small number of pumpers.

The Engines are arranged to draw water through Suction Pipes placed either in a River or Reservoir, or from their own Cisterns filled with water by buckets or other means when there is a difficulty in bringing the Engine close enough to the water supply to use the Suction Hose.

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**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**

# PORTABLE INDOOR FIRE APPLIANCES.

FOR BUILDINGS WHERE HIGH-PRESSURE WATERMAINS ARE NOT FITTED, IT IS ESSENTIAL THAT SOME SORT OF PORTABLE FIRE EXTINGUISHER SHOULD BE PROVIDED TO SUBDUCE A SUDDEN OUTBURST OF FIRE, or by the time the nearest Fire Brigade can be brought, the Fire may have made such headway as to be beyond control, and the Building be lost for the want of some light, handy apparatus that can be instantly applied.



GOVERNMENT PATTERN.

## THE "REGENT" DOUBLE-POWER Portable Hand Fire Pump.

A complete safeguard against Fire.

Always ready  
for action.

Nothing but  
Plain Water used.



GENERAL PATTERN.

THE DOUBLE-POWER HAND PUMP is specially designed for the suppression of Fires when discovered early, and when damage by water can be avoided. The complete apparatus, when empty, weighs 30 lbs., and can be conveniently carried about. The Pump is fixed in a pail holding 9 gallons of water, which is replenished by means of buckets as fast as it is used. One man can use it with excellent results, but it requires two men to develop its full power, namely, one to work the Pump, and the other to direct the Nozzle, when it is capable of forcing through a long line of hose and projecting a most powerful and continuous jet of water a distance of over 60 ft., thus enabling a stream of water to be directed wherever a fire may be burning without exposing the operator to any personal danger or inconvenience.

### PRICES.

	£	s.	d.
<b>GENERAL PATTERN</b> —(recommended for Mansions and all places where a superior finished article is an essential requirement) fixed in a specially designed pail, with a polished brass rail round the top to enable two persons to carry it when full of water, and is handsomely painted vermilion, or any other colour to order; lined and lettered FIRE in gold, and tastefully finished, thus combining utility and elegance; complete with 10 ft. hose, screws, and nozzle .. .. .	5	5	0
<b>GOVERNMENT PATTERN</b> —(recommended for Workshops, Farms and Out-buildings, Stables, &c.) fixed in pail with two handles for carrying, painted vermilion and lettered FIRE; complete with 10 ft. of hose, screws and nozzle .. .. .	3	15	0

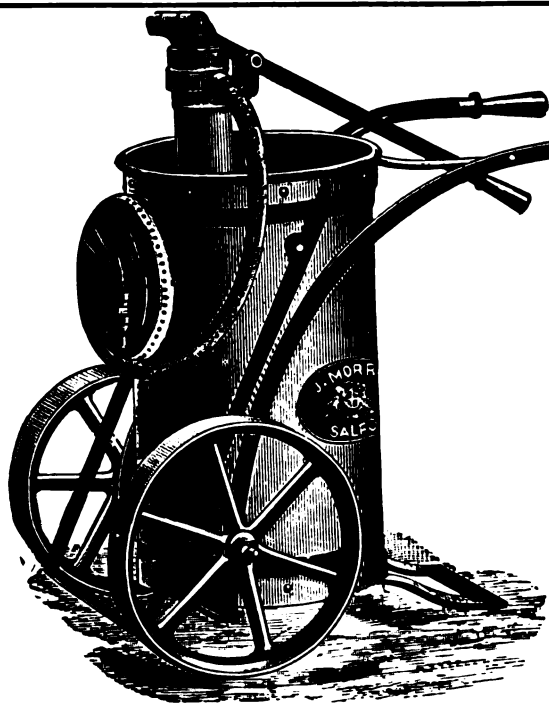
**Spreading Nozzle, 5/- extra. Extra Hose, fitted with screws, 10 ft., 10/-; Ditto, 20 ft. length, 17/6.**

In case of Fire in Workshops abounding in Wood and Shavings, and in Stables filled with Hay and Straw, the Spreading Nozzle may be most advantageously used, as it scatters the water in the form of a heavy shower, enabling a very small quantity of water to become really available for extinguishing a very large burning surface, while the damage done by water is the smallest possible.

**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**

# CORRIDOR FIRE ENGINE

*(It is also an excellent Garden Engine.)*



The special feature of this Engine is the large quantity of water the cistern will hold, and the ease with which it can be wheeled about when filled with water. This makes it a most desirable little Fire Engine for buildings where floors are of large area, as it contains sufficient water to supply the Pump several minutes. It is also fitted in the front with folding handles, by means of which the Engine can be carried up and down stairs. The pump and valves are made entirely of gun-metal, with 3-inch brass cylinder and large polished copper air-vessel, and therefore will not corrode like other makers' Engines of this design.

The Engine is Handsomely finished in vermillion, and occupies a space of 3 feet by 2 feet. It will force a jet of water 50 feet. The hose and nozzle should always be kept connected ready for immediate use.

PRICE of Engine, including nozzle and hose coupling .. ..	£8 10s. 0d. each.
If with patent noiseless elastic india-rubber tyres, on wheels	15s. 0d. extra.
Spreading Nozzle .. ..	5s. 0d. "
Hose Piping, per foot .. ..	8d. "
Ten or twenty feet is recommended with each Engine.	

## LONDON BRIGADE PORTABLE HAND PUMP.

COMPACT, CHEAP, POWERFUL, and EFFICIENT.

This is the only description of Hand Pump used by the London Fire Brigade.

The apparatus complete when empty weighs only 20 pounds.

The Pump is fixed in a pail holding 6 gallons of water, and is always ready for use.



It can be used by a boy or female servant, the handle being worked by one hand, whilst the nozzle is directed by the other, and will project a powerful stream of water a distance of 30 to 40 feet, the water in the pail being replenished by means of buckets.

**NO PRIVATE RESIDENCE, BOARDING SCHOOL or HOTEL**  
Should be without this approved and inexpensive safe-guard against the spread of Fire.

This Pump occupies a very small space, and can be kept in any convenient situation ready for immediate use. It is easily managed by any domestic, and is not liable to get out of order.

PRICE.—Brigade Hand Pump, fixed in handsomely painted Pail, with Cover and polished Brass

Handle, Hose fitted to screw and Jet complete .. .. . £3 3s. 0d.

**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**

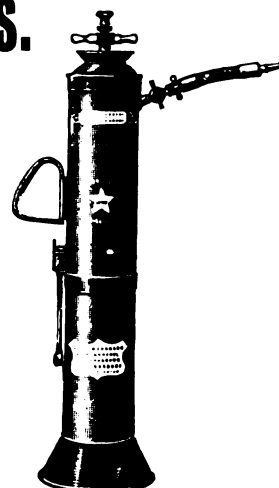
# CHEMICAL FIRE EXTINGUEURS.



Pattern C.



Pattern B.



Pattern A.

**THE ONLY RELIABLE MEANS OF EXTINGUISHING THE FLAMES OF BURNING PARAFFIN OR ANY OTHER COMBUSTIBLE OIL OR SPIRIT.**

These Extingueurs are fitted with all the latest improvements; they have a tap on the delivery pipe for controlling the flow of the contents, thus enabling the user to check them and move to a more effective place for playing on the fire without wasting the fluid when moving from place to place.

The Extingueurs are made in three designs. Pattern C, the largest type, is fitted with a yoke or shoulder straps, for carrying on the back of the user. Pattern B, medium size, shows the Extingueurs arranged for carrying in the hand. Pattern A is the smallest type, and may be hung or placed standing in different parts of a residence ready for immediate use.

## PRICES.

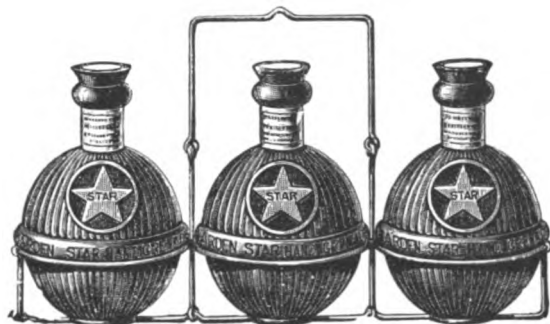
Pattern	A	A	A	B	B	C	C	C	LEATHER YOKES for carrying, Nos. 4, 5, and 6, 6/- each, extra.
Size	1	2	3	4	5	6	7	8	
Weight when Charged	19 lbs.	24 lbs.	30 lbs.	31 lbs.	53 lbs.	83 lbs.	104 lbs.	123 lbs.	
Capacity	4 pts.	12 pts.	16 pts.	14 pts.	26 pts.	5½ galls.	8 galls.	10 galls.	
Price	26/6	50/-	67/6	60/-	80/-	105/-	120/-	140/-	
Additional Chemical Charges	1/3	2/-	2/3	2/-	3/-	4/-	5/-	6/6	

## LEWIS SPRINKLER FIRE EXTINGUISHER

Consists of metallic tube 18 in. long by 2 in. diam. filled with a chemical fluid; is kept suspended from a hook. To use, seize by lower end, giving sudden jerk, by which stopper is withdrawn. Then sprinkle liquid on burning material until extinguished.

### PRICE.

30/- for Case containing Six.



## THE STAR GRENADE FIRE EXTINGUISHER.

**Always Ready for instant Use.**

**Safe, being Harmless to Health.**

Being of thinnest glass will break as easily as an egg, and can therefore be used by a child.

TO USE.—Throw the Grenades into the midst of the fire in quick succession until it is extinguished, using considerable force to scatter the liquid.

### PRICES.

Grenades, 40/- per dozen.

Wire Baskets to hold 3 Grenades, 13 each.  
Do. 2 do. 9d. do.

## COMBINATION GRENADE SPRINKLER.

Designed for more readily applying the liquid by sprinkling it on burning drapery. It is kept suspended and used in same manner as the Lewis Sprinkler, but being glass it can also be used by being thrown into a fire same as ordinary Grenade.

### PRICE.

25/- for Case containing Six.



**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**



# How to Save Life at Fires.

Ladders of all kinds, Belts and Ropes, &c., are much too slow a process of rescuing a large number of people, besides being even dangerous to a panic-stricken crowd, because with ladders excited people are liable to become dizzy and fall.

To overcome these defects we have recently introduced a novel kind of escape made in the form of a long canvas bag, down which persons can descend with great rapidity, safety, and even comfort. The "Toboggan" Fire Escape is the name given to this invention, and it is pronounced by all who have seen it to be beyond a doubt the most simple and efficient escape yet brought out.

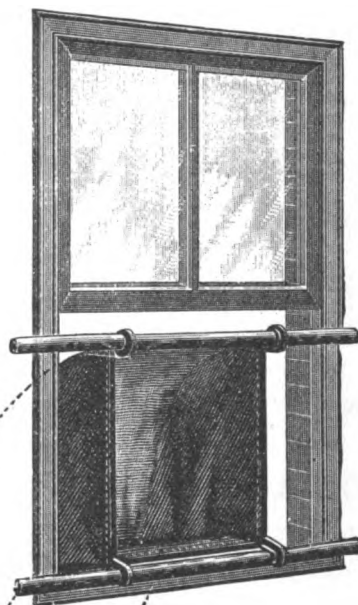
At a recent trial of some of these escapes which we supplied to the St. Joseph's Industrial Schools, Manchester, thirty boys descended from a third-storey window within the space of one minute. It does not matter which way the person descending goes down, either head or feet foremost; there is no fear of them being hurt, even though they may be insensible or invalid. Indeed, in some establishments where this escape is adopted the employes practise it as a pleasurable exercise and amusement—good training in the event of fire.



PRACTICE WITH "TOBOGGAN" FIRE ESCAPE.

The "Toboggan" Fire Escape is made of the very finest quality Royal Navy Canvas; the upper end of the bag-formed chute is fitted with a light steel frame of such a form as to properly extend the chute, and afford free access to the mouth of it from inside the room (avoiding the danger with the common canvas chute escapes having frames which necessitate getting over window sill before entering, a most dangerous practise).

The "Toboggan" is made either to be a fixture to a particular window, or portable for use from any window. Sketch No. 3 shows the portable pattern, which is fitted with two light strong bars of sufficient length to extend across the opening of the windows. To use the "Toboggan" simply place it on window bottom and allow the canvas chute to drop in the street, when the escape is at once adjusted ready for work.



Sketch No. 3. PORTABLE PATTERN,  
CAN BE USED FROM ANY WINDOW.

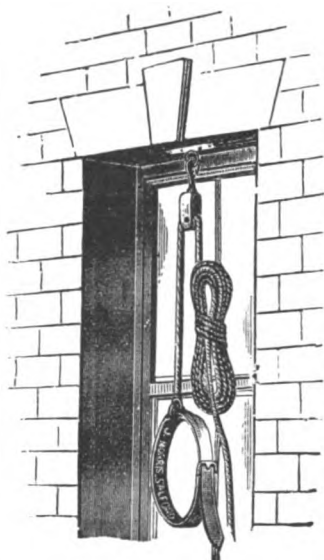
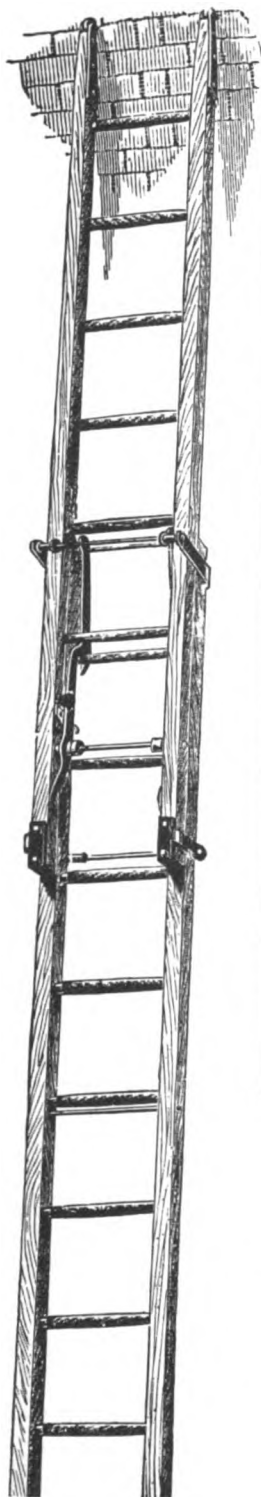
## PRICE:

Escape to suit any window not exceeding 20 feet high ... £5 0 0

For every additional foot in height of window sill, 4/-.

(For example, Escape to suit window 25 feet high would be £6 5/-).

**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**



### BELT & ROPE FIRE ESCAPE.

The Life Belt is fitted at one end of a specially plaited rope passing over a pulley. When required for use, the apparatus is hooked to an eye screwed in the upper part of window and the belt is firmly strapped to the person desiring descent.

The descent may be controlled by people in the street, or by some person inside the endangered room, or even by the individual himself.

The rope requires to be double the length of the distance from top of window to the ground.

PRICE	50 feet	..	40/-	each.
	75 "	..	45/-	"
	100 "	..	50/-	"



### ROPE LADDER FIRE ESCAPE.

Consists of a strong rope ladder with oak treads, attached at top to stout iron bar.

The ladder is thrown out, and the long bar placed across the inside of window, projecting about one foot on either side; a most simple and effectual means of escape is at once established. A child can fix it to any window, and it is easily carried from room to room.

PRICE	20 feet	..	25/-	each.
	30 "	..	35/-	"
	40 "	..	45/-	"
	50 "	..	55/-	"

### MORRIS'S PORTABLE EXTENSION LADDERS.

**The Strongest, Lightest, and Simplest to use.**

It is raised in the following manner: the person using it walks up the lower ladder, at the same time lifting with both hands the bottom stave of the upper one, allowing the gripping hooks to fall on each stave at every step. To lower: lift the upper ladder sufficient to disengage the gripping hooks off staves, thus sustaining the weight of the upper ladder by one hand, allowing the other hand to hold the hooks out of action.

This ladder forms a most handy fire escape, as it can be carried through buildings, &c., raised and extended to reach varying heights by one man with the greatest ease, and without any previous experience.

The ladders can be readily detached for use separately.

CAN BE STOWED AWAY OUT OF REACH OF BURGLARS.

PRICE	..	..	64/-	67/-	70/-	73/-	85/-	88/-, &c.
TO EXTEND TO			18ft.	21ft.	24ft.	27ft.	30ft.	33ft., &c.

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